PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220						
FPC03016-PCT	ACTION		as, where applicable, item 5 below.						
International application No.	International filing date (day/mo	nth/year)	(Earliest) Priority Date (day/month/year)						
PCT/KR2003/002115	14 OCTOBER 2003 (14.	10.2003)	EIR						
Applicant From									
LG CHEM, LTD. et al			2004 07. 0 5						
This International search report has been prep to Article 18. A copy is being transmitted to t	•	ng Authority a	nd is transmitted to the application of the LAW GROUP						
This international search report consists of a t	total of 2 sheets.								
It is also accompanied by a copy of each prior art document cited in this report.									
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to									
this Authority (Rule 23.		losed in the inte	ernational application, see Box No. I.						
2. Certain claims were found un	searchable (See Box No. II)								
3. Unity of invention is lacking (See Box No. III)								
4. With regard to the title,									
the text is approved as submitte	d by the applicant.								
the text has been established by this Authority to read as follows:									
5. With regard to the abstract,									
the text is approved as submitte									
			ppears in Box No. IV. The applicant t, submit comments to this Authority.						
6. With regard to the drawings,									
a. the figure of the drawings to be publically as suggested by the applically		lo							
because the applicant failed to suggest a figure.									
because this figure better c	haracterizes the invention.								
b. X none of the figure is to be public	shed with the abstract.								
Form PCT/ISA/210 (first sheet) (January 2004	<u> </u>								

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2003/002115

Δ	CLASSIFICATION	OF SUBJECT	MATTER
A.	CLASSIFICATION	Or SUBJECT	MALIER

IPC7 B01J 23/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 BOIJ 23/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975
KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) eKIPASS, HTTP://WWW.USPTO.GOV/, WWW.DELPHION.COM/WPI, PAJ, 'catalyst AND oxidation AND acrolein'

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US4563440 (Stamicarbon B.V., Licensing Subsidiary of DSM) 7 January 1986 see the abstract	1
Y	US4382880 (Rhone-Poulenc Industries) 10 May 1983 see the abstract and claims	1
A	US6171998 (LG Chemical, Ltd.) 9 January 2001 see the whole document	I ~ 12
A	US5446004 (BASF Aktiengesellschaft) 29 August 1995 see the whole document	I ~ 12
A	US4892856 (Nippon Shokubai Kagaku Kogyo Co., Ltd.) 9 January 1990 see the whole document	1 ~ 12
Α	US6337424 (Saudi Basic Industries Corporation) 8 January 2002 see the whole document	· 1 ~ 12
А	US4442308 (Degussa Aktiengesellschaft) 10 April 1984 see the whole document	1 ~ 12

A	US4442308 (Degussa Aktiengesellschaft) 10 April I see the whole document	984		1 ~ 12
Further	documents are listed in the continuation of Box C.		See patent family ann	nex.
"A" document to be of pa earlier app filing date "L" document cited to es special rer document means "P" document	defining the general state of the art which is not considered articular relevance of the art which is not considered articular relevance of the art which is not considered articular relevance of the art which is the publication of priority claim(s) or which is stablish the publication date of citation or other ason (as specified) referring to an oral disclosure, use, exhibition or other published prior to the international filing date but later iority date claimed	"X" "Y"	date and not in conflict with the the principle or theory underlyin document of particular relevance considered novel or cannot be of step when the document is taken document of particular relevance considered to involve an inventi	the claimed invention cannot be considered to involve an inventive alone; the claimed invention cannot be ive step when the document is trauch documents, such combination in the art
	ual completion of the international search 3 JUNE 2004 (28.06.2004)	Date	of mailing of the international 28 JUNE 2004 (28.06.20	•
Name and ma	iling address of the ISA/KR	Auth	orized officer	
- F	Korean Intellectual Property Office 20 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		YANG, In Soo	955
Facsimile No.	82-42-472-7140	Telep	phone No. 82-42-481-5567	\diciy

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